

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims

Claim 1. (Currently Amended) A communication control apparatus comprising:

- a first ~~port connection unit~~ which connects to a first segment of a network;
- a second ~~port connection unit~~ which connects to a second segment of the network;
- a CIP header detecting unit configured to detect whether ~~or not~~ an isochronous packet received by said first ~~port connection unit~~ includes a CIP (common isochronous packet) header conforming to IEC 61883 standard; and

a control unit configured to determine, using the CIP header, whether to disable relaying the isochronous packet ~~received by said first connection unit~~ including the CIP header to said second ~~port connection unit~~,

wherein said control unit controls to provide the isochronous packet including the CIP header to said second port, if the CIP header includes a node ID of a permission node, and

wherein said control unit controls to provide another isochronous packet including dummy data or null data to said second ~~connection unit~~ port in lieu of the isochronous packet including the CIP header ~~received by said first connection unit~~, if said control unit determines that relaying the isochronous packet received by said first connection unit to said second connection unit is disabled the CIP header includes a node ID of a prohibited node.

Claims 2 - 3. (Canceled)

Claims 4 - 9. (Canceled).

Claim 10. (Currently Amended) A communication control apparatus according to claim 1, wherein said first and second ports ~~connection-units~~ conform to the IEEE 1394-1995 standard.

Claim 11. (Currently Amended) A method of controlling a communication control apparatus, the communication control apparatus including a first port ~~connection-unit~~ which connects to a first segment of a network and a second port ~~connection-unit~~ which connects to a second segment of the network, the method comprising the steps of:

detecting whether an isochronous packet received by the first port ~~connection-unit~~ includes a CIP (common isochronous packet) header conforming to IEC 61883 standard;

determining, using the CIP header, whether to disable relaying the isochronous packet ~~received by the first connection-unit~~ including the CIP header to the second ~~connection-unit~~ port; and

providing the isochronous packet including the CIP header to the second port, if the CIP header includes a node ID of a permission node; and

providing another isochronous packet including dummy data or null data to the second ~~connection-unit~~ port in lieu of the isochronous packet ~~including the CIP header received by the first connection-unit~~, if it is determined in said determining step that relaying the isochronous packet ~~received by the first connection-unit to the second connection-unit is disabled~~ the CIP header includes a node ID of a prohibited node.

Claims 12. - 13. (Canceled)

Claim 14. (Canceled)

Claim 15. (Currently Amended) A method according to claim 11, wherein the first and second ports ~~connection-units~~ conform to the IEEE 1394-1995 standard.

Claims 16 - 17. (Canceled).

Claim 18. (Currently Amended) A communication control apparatus according to claim 1, wherein said control unit enables relaying the isochronous packet ~~received by said first connection unit~~ to said second ~~connection unit~~ port, if the isochronous packet ~~received by said first connection unit~~ does not include the CIP header.

Claim 19. (Previously Presented) A communication control apparatus according to claim 1, wherein said control unit detects a node ID of a source node from the CIP header in order to determine whether to disable relaying the isochronous packet received by said first connection unit to said second connection unit.

Claim 20. (Currently Amended) A method according to claim 11, further comprising the step of: enabling relaying the isochronous packet ~~received by the first connection unit~~ to the second ~~connection unit~~ port, if the isochronous packet ~~received by the first connection unit~~ does not include the CIP header.

Claim 21. (previously presented) A method according to claim 11, further comprising the step of: detecting a node ID of a source node from the CIP header in order to determine whether to disable relaying the isochronous packet received by the first connection unit to the second connection unit.